

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P434423

Luminaire Tested: **LAMR4B408R459024DE01021MMS**

Issue Date: 11/23/2020

Test Information

Test Method: LM-41-14
Report Number: P434423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-908-8)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 11/23/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LAMR4B408R459024DE01021MMS
Description: PORTFOLIO 4INCH ADJUSTABLE MULTIPLE, 45 DEG TIR OPTIC
Light Source: HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2840.5 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Spacing Criteria (0/90/45): 0.73 / 0.73 / 0.66
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

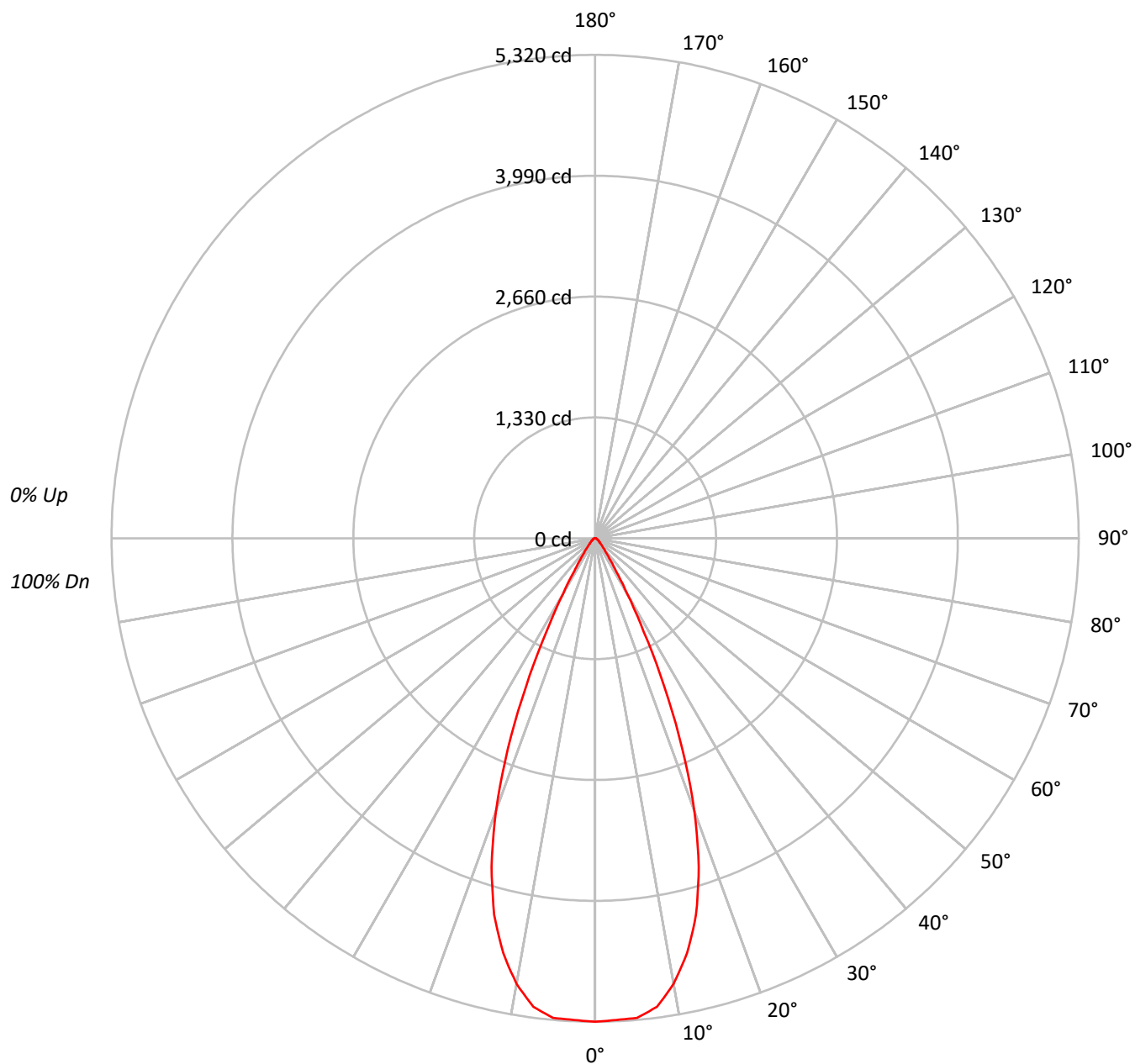
Input Watts (W): 41.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	114	112	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89			
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85			
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80			
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76			
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73			
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69			
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66			
9	82	74	69	65	81	73	68	65	72	68	65	72	68	65	71	67	65	63			
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2624829
5°	2623910
10°	2494082
15°	2190855
20°	1675992
25°	978422
30°	400446
35°	169368
40°	92294
45°	59657
50°	46514
55°	40342
60°	32662
65°	25800
70°	23802
75°	20969
80°	23582
85°	15851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.8	17.5
10°-20°	1167.7	41.1
20°-30°	822.8	29.0
30°-40°	202.5	7.1
40°-50°	70.7	2.5
50°-60°	41.8	1.5
60°-70°	23.2	0.8
70°-80°	12.7	0.4
80°-90°	3.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2486.2	87.5
0°-40°	2688.8	94.7
0°-60°	2801.3	98.6
0°-90°	2840.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2840.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5320	
5°	5298	496
15°	4289	1168
25°	1797	823
35°	281	203
45°	86	71
55°	47	42
65°	22	23
75°	11	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5320.1
2.5°	5306.3
5°	5298.0
7.5°	5201.6
10°	4978.3
12.5°	4675.1
15°	4289.2
17.5°	3790.2
20°	3192.1
22.5°	2505.7
25°	1797.3
27.5°	1160.5
30°	702.9
32.5°	427.3
35°	281.2
37.5°	198.5
40°	143.3
42.5°	110.3
45°	85.5
47.5°	71.7
50°	60.6
52.5°	52.4
55°	46.9
57.5°	41.3
60°	33.1
62.5°	27.6
65°	22.1
67.5°	19.3
70°	16.5
72.5°	13.8
75°	11.0
77.5°	11.0
80°	8.3
82.5°	5.5
85°	2.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)